

TRICHOSALPINX, A NEW GENUS
IN THE PLEUROTHALLIDINAE

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In the Pleurothallidinae three vegetatively similar genera are characterized by lepanthiform stems, i.e., secondary stems enclosed by a series of imbricating, ribbed, tubular sheaths dilated above to oblique ostia, and with the ribs and thickened margins of the ostia usually ciliate or scabrous. The three taxa may be differentiated from each other by the morphology of the column.

The column of *Lepanthes* Sw. is wingless and footless, with a dorsal, apical or subapical anther, and an apical or ventral stigma. The short, hooded column of *Lepanthopsis* (Cogn.) Ames is Platystele-like, with the anther apical and the stigma transversely bilobed. The column of *Pleurothallis* R. Br. Sect. *Lepanthiformes* (Lindl.) Cogn., proposed here as *Trichosalpinx*, is usually elongated, more or less winged, with an apical, subapical or ventral anther and stigma, and with a foot usually well-developed. The column could be called Pleurothallis-like sensu lato. The relationship of *Trichosalpinx* to *Pleurothallis* is analogous to the relationship of *Lepanthopsis* to *Platystele* Schltr. If *Lepanthopsis* is to be maintained, this taxon should be elevated to the rank of genus.

Trichosalpinx Luer, gen. nov.

Pleurothallis sect. *Brachystachyae* Lindl. Subsect. *Lepanthiformes* Lindl., Folia Orchid. Pleuroth. 25, 1859, in part.

Pleurothallis sect. *Elongatae* Lindl. Subsect. *Lepanthiformes* Lindl., Folia Orchid. Pleuroth. 26, 1859, in part.

Pleurothallis sect. *Acuminatae* Lindl. Subsect. *Lepanthiformes* Lindl., Folia Orchid. Pleuroth. 32, 1859, in part.

Pleurothallis sect. *Caulescentes* Lindl., Folia Orchid. Pleuroth. 44, 1859, in part.

Lepanthes sect. *Longicaulae* Barb. Rodr., Gen. Spec. Orch. 2: 40, 1882, in part.

Lepanthes sect. *Phyllocaulae* Barb. Rodr., Gen. Spec. Orch. 2:41, 1882, in part.

Lepanthes sensu Barb. Rodr., Vellozia 1, ed. 2: 120, 1891, in part.

Pleurothallis sect. *Lepanthiformes* (Lindl.) Cogn., Fl. Bras. 3(4): 591, 1896, in part.

Pleurothallis sect. *Bipaleolatae* Pabst, Orchid. Brasiliensis 162, 1975.

Herbae epiphyticae parvae vel grandes caulibus secundariis unifoliatis interdum superpositis. Vaginae caulinae imbricatae costatae tubulosae superne dilatatae cum ostio obliquo marginato, margine costisque plerumque breviter ciliatis scabrosive. Inflorescentia uniflora racemosave. Petala integra fimbriatae. Labellum integrum vel trilobatum interdum fimbriatum. Columna elongata saepe alata, margine clinandrii brevi vel cucullato, pede columnae brevi elongatove, anthera stigmataque apicalibus subapicalibus vel ventralibus pollinibus duobus.

Plants small to large, caespitose to scandent with prolific secondary stems. Sheaths of the secondary stems lepanthiform. Inflorescence usually racemose, rarely 1-flowered. Lateral sepals free or connate. Petals entire to fimbriate. Lip entire to 3-lobed, often fimbriate. Column usually elongated and winged, the foot usually well-developed, the anther apical to ventral, the stigma subapical to ventral. Pollinia 2.

Etymology: From the Greek *tricha* (τριχα), "a hair," and *salpinx* (σαλπιγξ), "a trumpet," in reference to the ciliated ribs and margins of the trumpet-like sheaths of the secondary stems.

TYPE: *Specklinia ciliaris* Lindl.

This somewhat diverse group of about 90 species is widely distributed from sea level to altitudes over 3000 meters, from southern Mexico to southern Brazil. Some species seem allied to *Pleurothallis*, others, to *Lepanthopsis*. The lips of some species are amazingly similar to the lips of some species of *Pleurothallis* sect. *Specklinia*, e.g. *P. barbulata* Lindl. and *T. ciliaris*, but vegetatively these two species are totally different. It would be interesting to discover if a common pollinator could account for this apparent example of convergent evolution.

The following new combinations become necessary.

- Trichosalpinx acremona* (Luer) Luer, comb. nov.
Pleurothallis acremona Luer, Selbyana 5: 157, 1979.
- Trichosalpinx acunae* Luer, nom. nov.
Pleurothallis obliquipetala Acuna & Schweinf., Bot. Mus. Leaflet 6: 3, 1938.
- Trichosalpinx aequatorialis* (Luer) Luer, comb. nov.
Pleurothallis aequatorialis Luer, Selbyana 5: 158, 1979.
- Trichosalpinx alabastra* (Luer & Escobar) Luer, comb. nov.
Pleurothallis alabastra Luer & Escobar, Orquideología 16: 17, 1983.
- Trichosalpinx apoda* (Garay & Dunsterv.) Luer, comb. nov.
Pleurothallis apoda Garay & Dunsterv., Venez. Orchids Ill. 3: 246, 1965
Lepanthopsis apoda (Garay & Dunsterv.) Luer, Selbyana 7: 100, 1982.
- Trichosalpinx arbuscula* (Lindl.) Luer, comb. nov.
Pleurothallis arbuscula Lindl., Edward's Bot. Reg. 28: misc. 72, 1842.
Humboldtia arbuscula (Lindl.) Kuntze, Rev. Gen. Pl. 2: 667, 1891.
- Trichosalpinx arbusculoides* (Hashimoto) Luer, comb. nov.
Pleurothallis arbusculoides Hashimoto, Bull. Natl. Sci. Mus. 4: 9, 1978.
- Trichosalpinx bacillaris* (Pabst) Luer, comb. nov.
Pleurothallis bacillaris Pabst, Arch. Jard. Bot. Rio de Janeiro 14: 7, 1956.
- Trichosalpinx berlineri* (Luer) Luer, comb. nov.
Pleurothallis berlineri Luer, Selbyana 3: 60, 1976.
- Trichosalpinx bicolor* (Barb. Rodr.) Luer, comb. nov.
Lepanthes bicolor Barb. Rodr., Rev. de Engenh. 3: 110, 1881 and Gen. Spec. Orch. Nov. 2: 49, 1882.
- Trichosalpinx blaisdellii* (S. Wats.) Luer, comb. nov.
Pleurothallis blaisdellii S. Wats., Proc. Amer. Acad. Arts 23: 284, 1888.
Pleurothallis peraltensis Ames, Sched. Orchid. 6: 65, 1923.
Pleurothallis standleyi Ames, Sched. Orchid. 9: 37, 1925.
- Trichosalpinx bradei* (Schltr.) Luer, comb. nov.
Pleurothallis bradei Schltr., Anexas Mem. Inst. Butantan, Secc. Bot. 1(4): 41, 1922.
- Trichosalpinx brevispicata* (C. Schweinf.) Luer, comb. nov.
Pleurothallis brevispicata C. Schweinf., Bot. Mus. Leaflet 10: 173, 1942.
- Trichosalpinx carinifera* (Barb. Rodr.) Luer, comb. nov.
Lepanthes carinifera Barb. Rodr., Rev. de Engenh. 3: 110, 1881 and Gen. Spec. Orch. Nov. 2: 69, 1882.
Pleurothallis carinifera (Barb. Rodr.) Cogn. Fl. Bras. 3(4): 584, 1896.
- Trichosalpinx carinilabia* (Luer) Luer, comb. nov.
Pleurothallis broadwayi var. *tricarinata* C. Schweinf., Bot. Mus. Leaflet 8: 42, 1940.
Pleurothallis carinilabia Luer, Selbyana 3: 256, 1977.
- Trichosalpinx castellensis* (Brade) Luer, comb. nov.
Pleurothallis castellensis Brade, Arch. Jard. Bot. Rio de Janeiro 9: 9, 1949.
- Trichosalpinx cedralensis* (Ames) Luer, comb. nov.
Pleurothallis cedralensis Ames, Sched. Orchid. 4: 18, May 1923.
Pleurothallis myrtillos Schltr., Repert. Spec. Nov. Regni Veg. Beih. 19: 108, Nov. 1923.
- Trichosalpinx chaetoglossa* (Luer) Luer, comb. nov.
Pleurothallis chaetoglossa Luer, Selbyana 3: 262, 1977.

- Trichosalpinx chamaelepanthes* (Rchb. f.) Luer, comb. nov.
Pleurothallis chamaelepanthes Rchb. f., *Bonplandia* 3: 240, 1855.
Humboldtia chamaelepanthes (Rchb. f.) Kuntze, *Rev. Gen. Pl.* 2: 667, 1891.
- Trichosalpinx ciliaris* (Lindl.) Luer, comb. nov.
Specklinia ciliaris Lindl., *Edward's Bot. Reg.* 24: misc. 31, April 1838.
Pleurothallis villosa Knowl. & Weste., *Floral Cab.* 2: 78, July 1838.
Pleurothallis lepanthiformis Rchb. f., *Linnaea* 18: 398, 1844.
Humboldtia lepanthiformis (Rchb. f.) Kuntze, *Rev. Gen. Pl.* 2: 668, 1891.
Humboldtia villosa (Knowl. & Weste.) Kuntze, *Rev. Gen. Pl.* 2: 668, 1891.
Pleurothallis purpusii Schltr., *Orchis* 9: 49, 1915.
Pleurothallis brevis Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 183, 1923.
Pleurothallis gnomonifera Ames, *Sched. Orchid.* 6: 61, 1923.
Pleurothallis ciliaris (Lindl.) L. O. Wms., *Caldasia* 5: 14, 1942.
- Trichosalpinx costata* (Luer and Vásquez) Luer, comb. nov.
Pleurothallis costata Luer & Vásquez, *Phytologia* 46: 364, 1980.
- Trichosalpinx crucilabia* (Ames & Correll) Luer, comb. nov.
Pleurothallis crucilabia Ames & Correll, *Bot. Mus. Leafl.* 10: 76, 1942.
- Trichosalpinx cryptantha* (Barb. Rodr.) Luer, comb. nov.
Lepanthes cryptantha Barb. Rodr., *Vellozia* 1(ed. 2): 120, 1891.
Pleurothallis cryptantha (Barb. Rodr.) Cogn., *Fl. Bras.* 3(4): 587, 1896, not Barb. Rodr. 1877, nor Cogn. 1912.
- Trichosalpinx curti-bradei* (Pabst) Luer, comb. nov.
Pleurothallis microcharis Schltr. ex Hoehne, *Bol. Mus. Nac. Rio de Janeiro* 12(2): 22, 1936, not Schltr. 1921.
Pleurothallis curti-bradei Pabst, *Arch. Jard. Bot. Rio de Janeiro* 14: 10, 1956.
- Trichosalpinx dependens* (Luer) Luer, comb. nov.
Pleurothallis dependens Luer, *Selbyana* 3: 94, 1976.
- Trichosalpinx dinotheri* (Rchb. f.) Luer, comb. nov.
Pleurothallis dinotheri Rchb. f. & Warsc., *Bonplandia* 2: 114, 1854.
Pleurothallis diptera Lindl., *Folia Orchid. Pleuroth.* 14, 1859.
Humboldtia dinotheri (Rchb. f. & Warsc.) Kuntze, *Rev. Gen. Pl.* 2: 667, 1891.
Humboldtia diptera (Lindl.) Kuntze, *Rev. Gen. Pl.* 2: 667, 1891.
Pleurothallis tricaudata Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 9: 77, 1921.
- Trichosalpinx dirhamphis* (Luer) Luer, comb. nov.
Pleurothallis dirhamphis Luer, *Selbyana* 3: 292, 1977.
- Trichosalpinx dura* (Lindl.) Luer, comb. nov.
Pleurothallis dura Lindl., *Folia Orch. Pleuroth.* 32, 1859.
Humboldtia dura (Lindl.) Kuntze, *Rev. Gen. Pl.* 2: 667, 1891.
Pleurothallis corazonica Lehm. & Krzl., *Bot. Jahrb. Syst.* 26: 443, 1899.
Pleurothallis amygdalodora Krzl., *Bot. Jahrb. Syst.* 37: 521, 1906.
Pleurothallis lepanthopsis Schltr., *Repert. Spec. Nov. Regni Veg.* 14: 386, 1916.
Pleurothallis lepanthoides Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 106, 1920.
Pleurothallis williamsii Ames, *Orchid.* 7: 120, 1922.
- Trichosalpinx egléri* (Pabst) Luer, comb. nov.
Pleurothallis egléri Pabst, *Ann. XIV Congr. Soc. Bot. Bras.* 14, 1964.
- Trichosalpinx falcipetala* (Schltr.) Luer, comb. nov.
Pleurothallis falcipetala Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 163, 1924.
- Trichosalpinx flexibilis* (Luer & Vásquez) Luer, comb. nov.
Pleurothallis flexibilis Luer & Vásquez, *Phytologia* 49: 205, 1981.
- Trichosalpinx foliata* (Griseb.) Luer, comb. nov.
Pleurothallis foliata Griseb., *Fl. Brit. W. Ind.* 610, 1864.
Humboldtia foliata (Griseb.) Kuntze, *Rev. Gen. Pl.* 2: 667, 1891.
Pleurothallis broadwayi Ames, *Orchid.* 2: 267, 1908.
Pleurothallis guadalupensis Cogn., *Symb. Antill.* 6: 432, 1909.
Pleurothallis anomala Hoehne, *Arch. Inst. Biol. (Sao Paulo)* 2: 43, 1929.
Pleurothallis broadwayi ssp. *anomala* (Hoehne) Garay, *Arch. Bot. Rio de Janeiro* 11: 53, 1951.
- Trichosalpinx hypocrita* (Garay & Dunsterv.) Luer, comb. nov.
Pleurothallis hypocrita Garay & Dunsterv., *Venez. Orchid.* Ill. 6: 344, 1976.
- Trichosalpinx inaequisepala* (C. Schweinf.) Luer, comb. nov.
Pleurothallis inaequisepala C. Schweinf., *Bot. Mus. Leafl.* 10: 180, 1942.
- Trichosalpinx inquisiviensis* (Luer & Vásquez) Luer, comb. nov.
Pleurothallis inquisiviensis Luer & Vásquez, *Phytologia* 49: 208, 1981,

- Trichosalpinx intricata* (Lindl.) Luer, comb. nov.
Pleurothallis intricata Lindl., Orchid. Linden. 1, 1846.
Humboldtia intricata (Lindl.) Kuntze, Rev. Gen. Pl. 2: 667, 1891.
- Trichosalpinx lancifera* (Schltr.) Luer, comb. nov.
Pleurothallis lancifera Schltr., Repert. Spec. Nov. Regni Veg. Beih. 23: 48, 1924.
- Trichosalpinx mastophora* (Luer & Vásquez) Luer, comb. nov.
Pleurothallis mastophora Luer & Vásquez, Phytologia 49: 209, 1981.
- Trichosalpinx matinhensis* (Hoehne) Luer, comb. nov.
Pleurothallis matinhensis Hoehne, Arq. Bot. Estado Sao Paulo, n.s., forma major 1:13, 1938.
- Trichosalpinx membraniflora* (C. Schweinf.) Luer, comb. nov.
Pleurothallis membraniflora C. Schweinf., Bot. Mus. Leafl. 5: 91, 1938.
- Trichosalpinx memor* (Rchb. f.) Luer, comb. nov.
Pleurothallis memor Rchb. f., Bonplandia 4: 330, 1856.
Humboldtia memor (Rchb. f.) Kuntze, Rev. Gen. Pl. 2: 667, 1891.
- Trichosalpinx microcharis* (Schltr.) Luer, comb. nov.
Pleurothallis microcharis Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 61, 1921, not Schltr. ex Hoehne 1936.
- Trichosalpinx minutipetala* (Ames & Schweinf.) Luer, comb. nov.
Pleurothallis minutipetala Ames & Schweinf., Sched. Orchid. 10: 32, 1930.
- Trichosalpinx montana* (Barb. Rodr.) Luer, comb. nov.
Lepanthes montana Barb. Rodr., Gen. Sp. Orchid. Nov. 1: 22, 1877.
Pleurothallis collina Cogn., Fl. Bras. 3(4): 582, 1896.
- Trichosalpinx moschata* (Rchb. f.) Luer, comb. nov.
Pleurothallis moschata Rchb. f., Xenia Orchid. 3: 42, t. 217, 1881.
Humboldtia moschata (Rchb. f.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
- Trichosalpinx mouraeoides* (Hoehne) Luer, comb. nov.
Pleurothallis versicolor Hoehne, Bol. Agric. (Sao Paulo) 34: 606, 1934, not Porsch 1905.
Pleurothallis mouraeoides Hoehne, Arq. Bot. Estado Sao Paulo, n.s., forma major, 1: 13, 1938.
- Trichosalpinx multicuspidata* (Rchb. f.) Luer, comb. nov.
Pleurothallis multicuspidata Rchb. f., Linnaea 41: 117, 1877.
- Trichosalpinx nana* (Ames & Schweinf.) Luer, comb. nov.
Pleurothallis nana Ames & Schweinf., Sched. Orchid. 8: 29, 1925.
- Trichosalpinx notosibirica* (Hashimoto) Luer, comb. nov.
Pleurothallis notosibirica Hashimoto, Bull. Natl. Sci. Mus. 4: 11, 1978.
- Trichosalpinx nymphalis* (Luer) Luer, comb. nov.
Pleurothallis nymphalis Luer, Phytologia 49: 212, 1981.
- Trichosalpinx obliquipetala* (Ames & Schweinf.) Luer, comb. nov.
Physosiphon obliquipetala Ames & Schweinf., Sched. Orchid. 8: 12, t. 22, 1925, not *Pleurothallis obliquipetala* Acuña & Schweinf. 1938.
Stelis obliquipetala (Ames & Schweinf.) L. O. Wms., Ceiba 5: 54, 1956.
Pleurothallis connata Luer, Selbyana 5: 388, 1981.
- Trichosalpinx operculata* Luer, comb. nov.
Pleurothallis operculata Luer, Phytologia 49: 213, 1981.
- Trichosalpinx orbicularis* (Lindl.) Luer, comb. nov.
Specklinia orbicularis Lindl., Edward's Bot. Reg. 24: misc. 31, 1838.
Pleurothallis orbicularis (Lindl.) Lindl., Edward's Bot. Reg. 28: misc. 79, 1842.
Pleurothallis biflora Focke, Tijdschr. Wis-Natuurk. Wetensch. 2: 197, 1949, not Schltr. 1923.
Humboldtia biflora (Focke) Kuntze, Rev. Gen. Pl. 2: 667, 1891.
Humboldtia orbicularis (Lindl.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
Pleurothallis trachythea Lehm. & Krzl., Bot. Jahrb. Syst. 26: 444, 1899.
Pleurothallis rotundata C. Schweinf., Bot. Mus. Leafl. 4: 115, 1937.
- Trichosalpinx otarion* (Luer) Luer, comb. nov.
Pleurothallis otarion Luer, Selbyana 7: 120, 1982.
- Trichosalpinx pergrata* (Ames) Luer, comb. nov.
Pleurothallis pergrata Ames, Sched. Orchid. 4: 24, 1923.
- Trichosalpinx podoglossa* (Hoehne) Luer, comb. nov.
Pleurothallis podoglossa Hoehne, Arq. Bot. Estado Sao Paulo, n.s. forma major, 1: 12, 1938.
- Trichosalpinx pringlei* (Schltr.) Luer, comb. nov.
Pleurothallis pringlei Schltr., Repert. Spec. Nov. Regni Veg. 3: 20, 1906.

- Trichosalpinx pterophora* (Cogn.) Luer, comb. nov.
Pleurothallis pterophora Cogn., Fl. Bras. 3(4): 583, 1896.
Pleurothallis pterophora var. *minor* Cogn., Fl. Bras. 3(4): 583, 1896.
- Trichosalpinx pumila* (Luer) Luer, comb. nov.
Pleurothallis pumila Luer, Selbyana 1: 268, 1975.
- Trichosalpinx punctatifolia* (Barb. Rodr.) Luer, comb. nov.
Pleurothallis punctata Lindl., Edward's Bot. Reg. 21: sub. t. 1797, 1835, not Ker 1823, nor Barb. Rodr. 1877, nor (Karst.) Schltr. 1919.
Lepanthes punctatifolia Barb. Rodr., Gen. Sp. Orchid. Nov. 2: 55, 1882.
Humboldtia punctata (Lindl.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
Pleurothallis punctatifolia (Barb. Rodr.) Pabst, Orquidea 28: 227, 1966.
- Trichosalpinx pusilla* (Kunth) Luer, comb. nov.
Dendrobium pusillum Kunth, Gen. Spec. Pl. 1: 357, 1816.
Specklinia pusilla (Kunth) Lindl., Edward's Bot. Reg. 21: sub t. 1797, 1836.
Humboldtia pusilla (Kunth) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
Pleurothallis pusilla (Kunth) Lindl., Edward's Bot. Reg. 28: misc. 82, 1842.
Pleurothallis lenticularis Luer, Selbyana 3: 132, 1976.
- Trichosalpinx pyxos* (Luer & Escobar) Luer, comb. nov.
Pleurothallis pyxos Luer & Escobar, Orquideologia 14: 168, 1981.
- Trichosalpinx quadridentata* (Barb. Rodr.) Luer, comb. nov.
Lepanthes quadridentata Barb. Rodr., Gen. Sp. Orchid. Nov. 2: 50, 1882.
Pleurothallis quadridentata (Barb. Rodr.) Cogn., Fl. Bras. 3(4): 454, 1896.
Pleurothallis mouraei Cogn., Fl. Bras. 3(4): 580, 1896.
Pleurothallis mouraei var. *brevifolia* Cogn., Fl. Bras. 3(4): 581, 1896.
- Trichosalpinx quartizicola* (Barb. Rodr.) Luer, comb. nov.
Lepanthes quartizicola Barb. Rodr., Vellozia 1, ed. 2: 119, 1891.
Pleurothallis quartizicola (Barb. Rodr.) Cogn., Fl. Bras. 3(4): 581, 1896.
Pleurothallis lepanthipoda Hoehne & Schltr., Album Secc. Bot. Mus. Paulista, San Paulo 135, 1925, nomen; Arch. Bot. Sao Paulo 1: 218, 1926.
- Trichosalpinx quitensis* (Rehb. f.) Luer, comb. nov.
Pleurothallis quitensis Rehb. f., Bonplandia 3: 240, 1855.
Humboldtia quitensis (Rehb. f.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
- Trichosalpinx robledorum* (Luer & Escobar) Luer, comb. nov.
Pleurothallis robledorum Luer & Escobar, Orquideologia 14: 170, 1981.
- Trichosalpinx roraimensis* (Rolfe) Luer, comb. nov.
Pleurothallis roraimensis Rolfe, Trans. Linn. Soc. London, Bot. ser. 2, 6: 58, 1901.
- Trichosalpinx rusehii* (Hoehne) Luer, comb. nov.
Pleurothallis rusehii Hoehne, Arq. Bot. Estado Sao Paulo, s.n. forma major 1: 44, 1939.
- Trichosalpinx scabridula* (Rolfe) Luer, comb. nov.
Pleurothallis scabridula Rolfe, Mem. Torrey Bot. Club 4: 260, 1895.
- Trichosalpinx semilunata* (Luer) Luer, comb. nov.
Pleurothallis semilunata Luer, Selbyana 3: 184, 1976.
- Trichosalpinx sordida* (Krzl.) Luer, comb. nov.
Pleurothallis sordida Krzl., Ark. Bot. 16: 8, 1920.
Pleurothallis pauloensis Hoehne & Schltr., Arch. Bot. Sao Paulo 1: 219, t. 15, fig. 3, 1927.
- Trichosalpinx stictophylla* (Schltr.) Luer, comb. nov.
Pleurothallis stictophylla Schltr., Repert. Spec. Nov. Regni Veg. 23: 43, 1926; descr. emend., Bol. Agric. Sao Paulo 34: 608, 1934.
- Trichosalpinx systemmata* (Luer) Luer, comb. nov.
Pleurothallis systemmata Luer, Phytologia 49: 219, 1981.
- Trichosalpinx tenera* (Barb. Rodr.) Luer, comb. nov.
Lepanthes tenera Barb. Rodr., Gen. Sp. Orchid. Nov. 2: 51, 1882.
Pleurothallis tenera (Barb. Rodr.) Cogn., Fl. Bras. 3(4): 407, 1896.
- Trichosalpinx tenuiflora* (Schltr.) Luer, comb. nov.
Pleurothallis tenuiflora Schltr., Repert. Spec. Nov. Regni Veg. 12: 488, 1913.
- Trichosalpinx tenuis* (C. Schweinf.) Luer, comb. nov.
Pleurothallis tenuis C. Schweinf., Bot. Mus. Leaf. 10: 190, 1942.
- Trichosalpinx trachystoma* (Schltr.) Luer, comb. nov.
Pleurothallis trachystoma Schltr., Repert. Spec. Nov. Regni Veg. Beih. 19: 196, 1923.
- Trichosalpinx triangulipetala* (Ames & Correll) Luer, comb. nov.
Pleurothallis triangulipetala Ames & Correll, Bot. Mus. Leaf. 10: 77, 1942.

- Trichosalpinx trilobata* (Fawc. & Rendle) Luer, comb. nov.
Pleurothallis trilobata Fawc. & Rendle, J. Bot. 47: 4, 1909.
- Trichosalpinx tropida* (Luer) Luer, comb. nov.
Pleurothallis tropida Luer, Phytologia 49: 219, 1981.
- Trichosalpinx vagans* (Garay & Dunsterv.) Luer, comb. nov.
Pleurothallis vagans Garay & Dunsterv., Venez. Orch. Ill. 6: 372, 1976.
- Trichosalpinx violacea* (Lem.) Luer, comb. nov.
Specklinia violacea Lem., Jard. Fleur. 3: misc. 19, 1852.
Pleurothallis catharinensis Cogn., Fl. Bras. 3(4): 579, 1896.
- Trichosalpinx xiphochila* (Rchb. f.) Luer, comb. nov.
Pleurothallis xiphochila Rchb. f., Linnaea 22: 831, 1849.
Humboldtia xiphochila (Rchb. f.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.
Platystele xiphochila (Rchb. f.) Garay, Caldasia 10: 233, 1968.
- Trichosalpinx yanganensis* (Luer) Luer, comb. nov.
Pleurothallis yanganensis Luer, Phytologia 49: 221, 1981.
- Trichosalpinx zephyrina* (Rchb. f.) Luer, comb. nov.
Pleurothallis zephyrina Rchb. f., Bonplandia 3: 71, 1855.
Humboldtia zephyrina (Rchb. f.) Kuntze, Rev. Gen. Pl. 2: 668, 1891.